

Magnetism

2-5 The student will demonstrate an understanding of force and motion by applying the properties of magnetism. (Physical Science)

2.5.1 Use magnets to make an object move without being touched.

Taxonomy level: 3.2-A Apply Factual Knowledge

Previous/Future knowledge: Students will build upon this foundation knowledge in 4th (4-5.9) when they summarize the properties of magnets and electromagnets (including polarity, attraction/repulsion, and strength).

It is essential for students to know that magnets can make an object move without touching the object. Other properties of magnets are:

- A magnet is solid material that attracts iron or products that contain iron like steel.
- A magnet can pull objects if the object contains iron.
- The magnet pulls the object using its *magnetic force*. This magnetic force cannot be seen but it can be observed when the magnet moves the object without touching it.

It is not essential for students to know about electromagnets at this grade level.

Assessment Guidelines:

The objective of this indicator is to *use* magnets to make objects move without being touched; therefore, the primary focus of assessment should be to apply a procedure to magnets to make them move objects without being touched. However, appropriate assessments should also require students to *identify* magnets; or *explain* how a magnet can move objects without touching them.